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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/663,299	09/15/2003	Haichao Liu	02307V-139100US	2611	
20350 TOWNSEND	20350 7590 10/03/2007 TOWNSEND AND TOWNSEND AND CREW, LLP			EXAMINER	
TWO EMBARCADERO CENTER			PUTTLITZ, KARL J		
	EIGHTH FLOOR SAN FRANCISCO, CA 94111-3834		ART UNIT	PAPER NUMBER	
SAN PRANCISCO, CA 94111-3034			1621		
				,	
			MAIL DATE	DELIVERY MODE	
	•	•	10/03/2007	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)			
	10/663,299	LIU ET AL.			
Office Action Summary	Examiner	Art Unit			
	Karl J. Puttlitz	1621			
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet w	rith the correspondence address			
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DATE of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication.  If NO period for reply is specified above, the maximum statutory period variety received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUN' 36(a). In no event, however, may a will apply and will expire SIX (6) MO accuse the application to become A	ICATION. reply be timely filed  NTHS from the mailing date of this communication. RBANDONED (35 U.S.C. § 133).			
Status					
<ol> <li>Responsive to communication(s) filed on 12 July 2007.</li> <li>This action is FINAL. 2b) ☐ This action is non-final.</li> <li>Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.</li> </ol>					
Disposition of Claims					
4) Claim(s) 1-28 is/are pending in the application.  4a) Of the above claim(s) is/are withdray  5) Claim(s) is/are allowed.  6) Claim(s) 1-28 is/are rejected.  7) Claim(s) is/are objected to.  8) Claim(s) are subject to restriction and/o	wn from consideration.				
Application Papers					
9) The specification is objected to by the Examine 10) The drawing(s) filed on is/are: a) acc Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Ex	epted or b) objected to drawing(s) be held in abeya tion is required if the drawin	ance. See 37 CFR 1.85(a). g(s) is objected to. See 37 CFR 1.121(d).			
Priority under 35 U.S.C. § 119					
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  a) All b) Some * c) None of:  1. Certified copies of the priority documents have been received.  2. Certified copies of the priority documents have been received in Application No  3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).  * See the attached detailed Office action for a list of the certified copies not received.					
		KARL PUTTLITZ PATENT EXAMINER			
Attachment(s)  1) Notice of References Cited (PTO-892)  2) Notice of Draftsperson's Patent Drawing Review (PTO-948)  3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	Paper No	Summary (PTO-413) o(s)/Mail Date f Informal Patent Application			

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## **DETAILED ACTION**

The objection to the specification is withdrawn.

The outstanding prior art rejections are withdrawn since they do not teach or provide a reason for oxidizing methanol or ethanol with the recited catalysts.

The following is a new ground of rejection:

## Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-28 are rejected under 35 U.S.C. 103(a) as being unpatentable over Mamoru et al. Journal of Catalysis, 77, 279-288 (1982) (Mamoru) in view of Kirk Othmer (of record).

Mamoru teaches Fe-Mo catalysts for the oxidation of methanol to its oxidative products, see Table I. Although Mamoru fails to teach a supported catalyst, Kirk-Othmer specifically teaches the recited supported catalysts, and benefits thereof, and therefore, use of a supported catalysts would have been prima facie obvious since Kirk Othmer teaches supported catalysts to such an extent that their use would have been provided a predictable result. With regard to those embodiments requiring oxidation of

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ethanol, a predictable result would have been expected using the catalysts taught by Mamoru and Kirk Othmer, given the similar starting material.

## Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Karl J. Puttlitz whose telephone number is (571) 272-0645. The examiner can normally be reached on Monday to Friday from 9 a.m. to 5 p.m.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Yvonne Eyler, can be reached at telephone number (571) 272-0871. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact/the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

KARL PUTTLITZ

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